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542 007

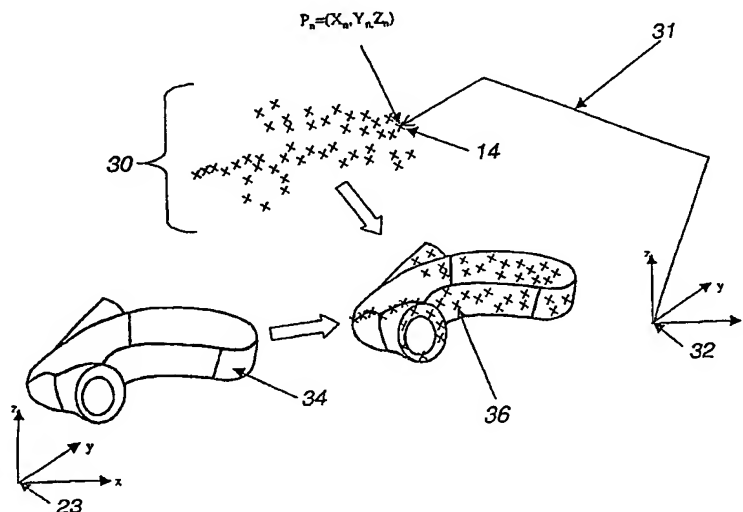
(43) International Publication Date
26 August 2004 (26.08.2004)

PCT

(10) International Publication Number
WO 2004/071717 A1

- (51) International Patent Classification⁷: **B25J 9/16**, G05B 19/4097, 19/42
- (21) International Application Number: PCT/SE2003/002003
- (22) International Filing Date: 17 December 2003 (17.12.2003)
- (25) Filing Language: Swedish
- (26) Publication Language: English
- (30) Priority Data: 0300409-0 13 February 2003 (13.02.2003) SE
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- (81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A METHOD AND A SYSTEM FOR PROGRAMMING AN INDUSTRIAL ROBOT TO MOVE RELATIVE TO DEFINED POSITIONS ON AN OBJECT, INCLUDING GENERATION OF A SURFACE SCANNING PROGRAM



(57) Abstract: A method and a system for programming an industrial robot (1) to move relative to defined positions on an object (4). The system comprises a geometrical model of the object, the real object (4), and an industrial robot. A plurality of measuring points are generated corresponding to different points on the surface of the real object expressed in a coordinate system associated with the robot. The system further comprises a calibration module (17) arranged to determine orientation and position of the geometrical model of the object relative to said coordinate system associated with the robot, a calculating module (18) arranged to calculate the deviation between the measuring points and corresponding points on the geometrical model, and an adjusting module (19) arranged to adjust said defined positions based on said calculated deviations.

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